

Notice of Allowability

Application No.

10/771,979

Examiner

Carol S. Tsai

Applicant(s)

RHEA ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/9/2006.
2. ☒ The allowed claim(s) is/are 13,15 and 17-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

1. Claims 13, 15, and 17-24 are allowed.
2. The following is an examiner's statement of reasons for allowance:

U. S. Patent No. 6,591,010 to Russin in view of U. S. Publication No. 2004/0227751 to Anders are references closest to the claimed invention. Russin in combination with Anders disclose a method for automatically testing the video display functionality of a computer video card, comprising: displaying a three dimensional image on a computer display monitor according to a first display orientation; rotating the three dimensional image on the computer display monitor to a second display orientation; capturing the three dimensional image displayed according to a first display orientation and storing the captured three dimensional image to a memory location; comparing one or more selected pixels of the stored captured three dimensional image to a known color range for the one or more selected pixels; and if a color of the one or more selected pixels does not fall within the known color range for the one or more selected pixels, designating the computer video card as failing the video test. However, Russin in combination with Anders do not teach if the three dimensional image does not rotate to a second display orientation, designating the computer video card as failing an image rotation test; and including all of the other limitations in the respective independent claims.

U. S. Patent No. 6,591,010 to Russin in view of U. S. Patent No. 6,580,466 to Siefken are references closest to the claimed invention. Russin in combination with Siefken disclose a method for automatically testing an audio video interleaved (AVI) file, comprising: displaying

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frames of the AVI file on a computer display monitor; copying one of the displayed frames as a test frame to a bitmap file in a first memory context; displaying the bitmap file on the computer display monitor; capturing the displayed bitmap file and storing the captured displayed bitmap file to a second memory context; comparing the captured displayed bitmap file in the second memory context to the bitmap file copied to the first memory context on a pixel-by-pixel basis; if any pixel of the bitmap file copied to the first memory context is different from a corresponding pixel of the bitmap file stored in the second memory context, designating the image file as failing a video test. However, Russin in combination with Siefken do not teach playing the AVI file to determine whether a set of frames comprising the AVI file being displayed on the computer display monitor successively; and if the set of frames comprising the AVI file are not displayed on the computer display monitor successively, designating the AVI file as failing an AVI operability test; and including all of the other limitations in the respective independent claims.

U. S. Patent No. 6,591,010 to Russin is the reference closest to the claimed invention. Russin discloses Russin discloses a method for automatically testing the video display functionality of a computer video card, comprising: storing a first computer displayable image in a first memory context; passing the image through a computer video card for displaying on a computer display monitor; displaying the image on the computer display monitor; capturing the displayed image and storing the captured displayed image to a second memory context; comparing the first stored image to the second stored image to determine whether the second stored image is substantially the same as the first stored image after the first image is displayed on the computer display monitor; and if the first stored image is not substantially the same as the second stored image, designating the computer video card as failing a video test. However,

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Russin does not teach after comparing the first stored image to the second stored image to determine whether the second stored image is substantially the same as the first stored image, changing the resolution of the first stored image; storing the first stored image having the changed resolution in the first memory context; passing the first stored image having the changed resolution through a computer video card for displaying on a computer display monitor; displaying the first stored image having the changed resolution on the computer display monitor; capturing the displayed first stored image having the changed resolution and storing the captured displayed image to a second memory context; and comparing the first stored image having the changed resolution to the second stored image having the changed resolution to determine whether the second stored image having the changed resolution is substantially the same as the first stored image having the changed resolution after the change in resolution of the first stored image; and including all of the other limitations in the respective independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol S. W. Tsai whose telephone number is (571) 272-2224. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571) 272-2216. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 886-217-9197 (toll-free).

cswt
May 23, 2006
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CAROL S.W. TSAI
PRIMARY EXAMINER